

TWC HAB System Plan Ecology's Perspective Sept. 11, 2013



Ecology Concerns - WTP

- 1. Current concerns regarding WTP/waste feed:
 - a) Unknown scope
 - b) Recognized scope with no defined path forward
 - c) Recognized scope with set path forward



Ecology Concerns - Tank Farms

- 1. Current concerns regarding tank farms
 - a) Limited DST space
 - b) Leaking DST AY-102
 - c) Leaking SSTs with no infrastructure
 - d) Impacts to groundwater
 - e) Vadose zone remediation
 - f) Aging tanks



Current Situation

- I. Current CD and TPA milestones fixed
- 2. Leak response required for DSTs and SSTs
- 3. WTP construction completion required
- 4. USDOE plan not revealed yet
- 5. Adequate Funding uncertainties over time
- 6. ICD-19 requirements in question
- 7. Integration with TOC and WTP necessary



Ecology WTP Concerns

- I. Uncertainty in waste feed delivery to WTP
 - a. blending details necessary (ex. Solids loading and settling, identifying constituents of concern, flow features)
 - b. Treatment process (ex. Hydrogen in vessels, mixing, particle distribution)
- 2. DNFSB 2010-2 recommendations remain unresolved
 - a. Awaiting updated resolution plan
- 3. Need to understand **resolution plans** to evaluate assumptions and then uncertainty.
 - a. Uncertainty can be valued and modeled with proper assumptions
- 4. WTP actual operations start up date
 - a. Many uncertainties remain.



System Plan Rev. 7 model runs

- I. US DOE Baseline Case
- 2. CD and TPA compliant case
- 3. WTP enhanced glass with blending and conditioning
- Direct waste feed to LAW with blending and conditioning
- 5. Tank Farm SST waste retrieval schedule maintained to compliance dates
- 6. Develop proper waste retrieval and feed for WTP
- 7. Contingency plans for tank farms and WTP



Opportunities to achieve better outcomes

- I. Create clear assumptions
- 2. Define and acknowledge uncertainties
- 3. Ensure work is compliant
- 4. Understand DOE FY 14 plan and beyond



Extra slides follow



SP Rev. 7 assumptions questions/concerns

- I. What are details on blending and conditioning facility?
- 2. Evaluate tank failure and number of tanks out of commission
- 3. Justify WTP/waste blending needs



Ecology Assumptions

- I. WTP
 - I. Enhanced glass formula
 - 2. Direct feed to LAW
- 2. Tank Farms
 - I. Continued SST waste retrieval
 - 2. Model SST and DST failures